

# **TM65 Mid-Level Calculation GRIPPLEXP-NO2**

### Site name

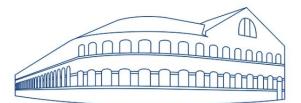
Old West Gun Works

Savile Street East Sheffield, S9 7UQ Site address

Products per year 6,795,450

Assessment date	13/09/2022	Embodied car
Assessor	Tasha Lyth	'mid-level TM6 method total:
Organisation	Gripple Ltd	
Contact	sustainability@gripple.com	<b>0.129</b> (kg C0

Type of product	MEP supports and bracketry
Capacity of equipment (M)	1.0 m
Product weight (kg)	0.02 kg
Material breakdown for at least 95% of the product weight (Y/N)	Y
Service life of the product (years)	25**
Types of refrigerant	N/A
Refrigerant GWP	0.00 kg
Energy consumption of the factory per unit of product (kWh)	0.01 kWh: Electricity, natural gas
Location of manufacture	Sheffield, UK
Product complexity	Category 1:



rbon result with 65 calculation

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\*Figure reached using 'Mid-Level' TM65 calculator

\*\*Product service life when installed in accordance with Gripple key recommendations, 25 year extended product warranty available at Technical Services discretion.

See CIBSE TM65 table 4.3

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Gripple's policy is one of continuous development and innovation. We therefore reserve the right to alter specifications, etc. without notice.

### Gripple Ltd | The Old West Gun Works | Savile Street East | Sheffield S4 7UQ Tel 0800 018 4264 Fax 0114 275 1155 Email sustainability@gripple.com



# TM65 Mid-Level Calculation **GRIPPLEXP-NO2**



Embodied carbon result with 'mid-level TM65 calculation' method total:

0.129 (kg CO<sub>2</sub>e)\*

Embodied carbon results breakdown (kg CO <sub>2</sub> e)		
A1: Material extraction	0.081 kg C0 <sub>2</sub> e	TM65 assumption
A2: Transport	0.004 kg C0 <sub>2</sub> e	TM65 assumption
A3: Manufacturing	0.002 kg C0 <sub>2</sub> e	
A4: Transport to site	0.001 kg C0 <sub>2</sub> e	TM65 assumption
B1: Use	0.000 kg C0 <sub>2</sub> e	TM65 leakage type 0
B3: Repair	0.008 kg C0 <sub>2</sub> e	TM65 assumption
C1: Deconstruction	0.000 kg C0 <sub>2</sub> e	TM65 leakage type 0
C2: Transport	0.000 kg C0 <sub>2</sub> e	
C3: Waste processing	0.002 kg C0 <sub>2</sub> e	
C4: Disposal	0.000 kg C0 <sub>2</sub> e	TM65 assumption

Embodied carbon results - without refrigerant leakage (kg CO <sub>2</sub> e)		
A1-C4 (excluding B1,C1)	0.099 kg CO <sub>2</sub> e	
A1-C4 with Buffer Factor (excluding B1, C1)	0.129 kg CO <sub>2</sub> e	

Embodied carbon result - refrigerant leakage only (kg CO <sub>2</sub> e)				
B1 (Refrigerant leakage during use) + C1 (Refrigerant leakage end of life)	0.000 kg C0 <sub>2</sub> e			
Assumptions				
A1: Material carbon coefficient source	Source = CIBSE TM65 table 2.1			
B1: Refrigerant annual leakage rate (%)	0%: Source = CIBSE TM65 table 4.13 type 2			
C1: Refrigerant end of life recovery rate (%)	100%: Source = CIBSE TM65 table 4.13 type 2			

10%: Source = CIBSE TM65 B3: Materials replaced as part of repair (%)

50%: Source = CIBSE TM65 C4: Percentage of product going to landfill (%)

\*Figure reached using 'Mid-Level' TM65 calculator \*\*25 years for project work as decided by Gripple Technical Services

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